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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/921,184	08/02/2001	Byung-Jik Kim	5000-1-216	6101	
23565 7:	590 08/08/2002				
KLAUBER & JACKSON			EXAMINER		
411 HACKENSACK AVENUE HACKENSACK, NJ 07601			NGUYEN	, SON V	
			ART UNIT	PAPER NUMBER	
			2839		
			DATE MAILED: 08/08/2002	DATE MAILED: 08/08/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No. 09/921,184

Examiner

Applicant(s)

Son Nguyen

Art Unit 2839

Kim et al.

 The MAILING DATE of this communication appears on the 	e cover sheet with the correspondence address
Period for Reply	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO THE MAILING DATE OF THIS COMMUNICATION.	EXPIRE 3 MONTH(S) FROM
 Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, mailing date of this communication. 	however, may a reply be timely filed after SIX (6) MONTHS from the
If the period for reply specified above is less than thirty (30) days, a reply within the statutory. If NO period for reply is specified above, the maximum statutory period will apply and will exp. Failure to reply within the set or extended period for reply will, by statute, cause the applicati. Any reply received by the Office later than three months after the mailing date of this commu earned patent term adjustment. See 37 CFR 1.704(b).	oire SIX (6) MONTHS from the mailing date of this communication. on to become ABANDONED (35 U.S.C. § 133).
Status	
1) Responsive to communication(s) filed on	
2a) ☐ This action is FINAL . 2b) ☒ This action is r	on-final.
3) Since this application is in condition for allowance except f closed in accordance with the practice under Ex parte Que	or formal matters, prosecution as to the merits is uayle35 C.D. 11; 453 O.G. 213.
Disposition of Claims	
4) 🛛 Claim(s) <u>1-12</u>	is/are pending in the applica
4a) Of the above, claim(s)	is/are withdrawn from considera
5) 🗌 Claim(s)	is/are allowed.
6) 🛛 Claim(s) _1-12	
7) 🗌 Claim(s)	is/are objected to.
8)	
Application Papers	,
9) The specification is objected to by the Examiner.	
10) The drawing(s) filed on is/are a	accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) b	
11) The proposed drawing correction filed on	
If approved, corrected drawings are required in reply to this Office	•
12) The oath or declaration is objected to by the Examiner.	
Priority under 35 U.S.C. §§ 119 and 120	
13) 🗓 Acknowledgement is made of a claim for foreign priority und	der 35 U.S.C. § 119(a)-(d) or (f).
a)⊠ All b) ☐ Some* c) ☐None of:	
1. X Certified copies of the priority documents have been re	eceived.
2. Certified copies of the priority documents have been re	eceived in Application No
 Copies of the certified copies of the priority documents application from the International Bureau (PCT) 	s have been received in this National Stage
*See the attached detailed Office action for a list of the certified	d copies not received.
14) Acknowledgement is made of a claim for domestic priority u	
a) The translation of the foreign language provisional application	1
15) Acknowledgement is made of a claim for domestic priority u	nder 35 U.S.C. §§ 120 and/or 121.
Attachment(s)	
	Interview Summary (PTO-413) Paper No(s).
S) Information Disclosure Statement(s) (PTO-1449) Paper No(s).	Notice of Informal Patent Application (PTO-152)
-,	Aug.

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DETAILED ACTION

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Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 1, lines 4-5, there is no antecedent basis for "the rear end of said shelf." In lines 6-7, there is no antecedent basis for "the outer surface of said switch motherboard." In lines 8-9, there is no antecedent basis for "the front surface of said switch motherboard."

In claim 2, lines 2-3, there is no antecedent basis for "the front center portion of said switch motherboard."

Claims 7-8 have a similar rejection claims 1-2.

In claim 12, there is no antecedent basis for "said guide rail."

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hsieh et al. (US 5,625,780) and Van Deventer (US 6,021,234) and Cannella, Jr. et al. (US 6,144,561).

Hsieh et al. discloses a cross connect device [figure 2] comprising:

- a switch motherboard [10];
- a crosspoint switch [22] positioned in the center of the motherboard;
- a plurality of switch connectors [12];
- a plurality of transceiver boards [14] having a plurality of connector [not shown] for connecting to the switch connectors; and
- an impedance signal line is formed in the mother board [figure 2, column 6, lines 25-26].

Hsieh et al. discloses the instant claimed invention except for the transceiver boards are optical boards.

Van Deventer discloses an interconnect device [figure 1] having a plurality of optical boards [16, claim 20] being mounted on a motherboard [10].

It would have been obvious to one having ordinary skill in the art at the time invention was made to modify the boards of Van Deventer to use the optical boards as taught by Van Deventer for the purpose of providing a communication signal a an optical signal.

Hsieh et al. and Van Deventer discloses the instant claimed invention except for the motherboard and the transceiver mounted to a shelf having a plurality of racks.

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Cannella, Jr. et al. discloses a board assembly [figure 2] comprising a shelf [10] having a

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plurality of guide rails.

It would have been obvious to one having ordinary skill in the art at the time invention

was made to use the transceiver boards of Van Deventer place into the shelf including the guide

rails as taught by Cannella, Jr. et al. for the purpose of facilitate guiding and retaining the boards.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Iwano et al. (US 4,895,425) shows plug-in connectors for connecting between circuit

boards to a motherboard.

6. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Son Nguyen whose telephone number is (703) 308-8745.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Brian Sircus, can be reach on (703) 308-3119. The fax phone number for this Group

is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Group receptionist whose telephone number is (703) 308-1782.

Son Nguyen

July 25, 2002

BRIAN SIRCUS

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800